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| TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371 | | ATTORNEY'S DOCKET NUMBER BGI-154US2 |
| | | U.S. APPLICATION NO. (If known, see 37 CFR 1.5) 10/520230 NEW APPLICATION |
| INTERNATIONAL APPLICATION NO. PCT/US2003/021305 | INTERNATIONAL FILING DATE 3 July 2003 | PRIORITY DATE CLAIMED 3 July 2002 |
| TITLE OF INVENTION MICROORGANISMS AND PROCESSES FOR ENHANCED PRODUCTION OF PANTOTHENATE | | |
| APPLICANT(S) FOR DO/EO/US R. Rogers YOCUM <i>et al.</i> | | |

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

- ☒ This is a **FIRST** submission of items concerning a submission under 35 U.S.C. 371.
- ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a submission under 35 U.S.C. 371.
- ☐ This is an express request to begin national examination procedures (35 U.S.C. 371 (f)). The submission must include items (5), (6), (9) and (21) indicated below.
- ☐ The US has been elected (Article 31).
- ☒ A copy of the International Application as filed (35 U.S.C. 371 (c)(2))
 - ☐ is attached hereto (required only if not communicated by the International Bureau).
 - ☒ has been communicated by the International Bureau.
 - ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).
- ☐ An English language translation of the International Application as filed (35 U.S.C. 371 (c)(2)).
 - ☐ is attached hereto.
 - ☐ has been previously submitted under 35 U.S.C. 154(d)(4).
- ☒ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3))
 - ☐ are attached hereto (required only if not communicated by the International Bureau).
 - ☐ have been communicated by the International Bureau.
 - ☐ have not been made; however, the time limit for making such amendments has NOT expired.
 - ☒ have not been made and will not be made.
- ☐ An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371 (c)(3)).
- ☐ An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)).
- ☐ An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)).

Items 11 to 20 below concern document(s) or information included:

- ☐ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
- ☐ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
- ☒ A preliminary amendment (**10 sheets**).
- ☒ An Application Data Sheet under 37 CFR 1.76 (**3 sheets**).
- ☐ A substitute specification.
- ☐ A power of attorney and/or change of address letter.
- ☒ A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825.
- ☐ A second copy of the published International Application under 35 U.S.C. 154(d)(4).
- ☐ A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).
- ☒ Other items or information: PCT International Published Application (WO2004/005525 A2) (without International Search Report attached) (92 sheets); PCT Notification of the Recording of A Change (1 sheet); Certificate of Express Class Mailing (1 sheet); and Return Postcard.

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|---|--|--|--|--|--|
| U.S. APPLICATION NO. (if known, see 37 CFR 1.51) 12/500020 NEW APPLICATION | | INTERNATIONAL APPLICATION NO. PCT/US2003/021305 | | ATTORNEY'S DOCKET NUMBER BGI-154US2 | |
|---|--|--|--|--|--|

21. The following fees are submitted:

| | Applicant Use | Office Use Only | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---------------|---|---|-------------|------------|-------|--------------|------------|----|---------|-------------|--|--------------------|----------|----|----------|-------------|--|---|--|--|--|----------|-----------|--------------------------------------|--|--|--|-------------|--|--|--|
| <input checked="" type="checkbox"/> a) Basic national fee \$300.00 | \$ 300.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input checked="" type="checkbox"/> b) Examination fee \$200.00 | \$ 200.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input checked="" type="checkbox"/> c) Search fee \$500.00 | \$ 500.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TOTAL OF ABOVE CALCULATIONS = \$1000.00 | \$ 1,000.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width:15%;">Total Sheets</th> <th style="width:15%;">Extra sheets</th> <th style="width:35%;">Number of each additional 50 or fraction thereof (round up to a whole number)</th> <th style="width:35%;">RATE</th> </tr> <tr> <td>70 - 100 =</td> <td>/50 =</td> <td></td> <td>x \$250.00</td> </tr> </table> | Total Sheets | Extra sheets | Number of each additional 50 or fraction thereof (round up to a whole number) | RATE | 70 - 100 = | /50 = | | x \$250.00 | | | | | | | | | | | | | | | | | | | | | | | | |
| Total Sheets | Extra sheets | Number of each additional 50 or fraction thereof (round up to a whole number) | RATE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 70 - 100 = | /50 = | | x \$250.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492 (e)). | \$ 130.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width:15%;">CLAIMS</th> <th style="width:15%;">NUMBER FILED</th> <th style="width:15%;">NUMBER EXTRA</th> <th style="width:15%;">RATE</th> <th style="width:15%;"></th> <th style="width:15%;"></th> </tr> <tr> <td>Total claims</td> <td>54 - 20 =</td> <td>34</td> <td>x 50.00</td> <td>\$ 1,700.00</td> <td></td> </tr> <tr> <td>Independent claims</td> <td>15 - 3 =</td> <td>12</td> <td>x 200.00</td> <td>\$ 2,400.00</td> <td></td> </tr> <tr> <td colspan="4">MULTIPLE DEPENDENT CLAIM(s) (if applicable)</td> <td>+ 360.00</td> <td>\$ 360.00</td> </tr> <tr> <td colspan="4">TOTAL OF ABOVE CALCULATIONS =</td> <td>\$ 5,590.00</td> <td></td> </tr> </table> | CLAIMS | NUMBER FILED | NUMBER EXTRA | RATE | | | Total claims | 54 - 20 = | 34 | x 50.00 | \$ 1,700.00 | | Independent claims | 15 - 3 = | 12 | x 200.00 | \$ 2,400.00 | | MULTIPLE DEPENDENT CLAIM(s) (if applicable) | | | | + 360.00 | \$ 360.00 | TOTAL OF ABOVE CALCULATIONS = | | | | \$ 5,590.00 | | | |
| CLAIMS | NUMBER FILED | NUMBER EXTRA | RATE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total claims | 54 - 20 = | 34 | x 50.00 | \$ 1,700.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Independent claims | 15 - 3 = | 12 | x 200.00 | \$ 2,400.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MULTIPLE DEPENDENT CLAIM(s) (if applicable) | | | | + 360.00 | \$ 360.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TOTAL OF ABOVE CALCULATIONS = | | | | \$ 5,590.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SUBTOTAL = | \$ 5,590.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492 (f)). | + | \$ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TOTAL NATIONAL FEE = | \$ 5,590.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fee for recording the enclosed assignment (37 CFR 1.21 (h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property | + | \$ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TOTAL FEES ENCLOSED = | \$ 5,590.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Amount to be refunded: | | \$ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Amount to be charged: | | \$ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

a. ☐ A check in the amount of \$ _____ to cover the above fees is enclosed.

b. ☒ Please charge my Deposit Account No. 12-0080 in the amount of \$ 5,590.00 to cover the above fees. A duplicate copy of this sheet is enclosed.

c. ☒ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 12-0080. A duplicate copy of this sheet is enclosed.

d. ☐ Fees are to be charged to a credit card. **WARNING:** Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137 (a) or (b)) must be filed and granted to restore the International Application to pending status.

SEND ALL CORRESPONDENCE TO:

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 (617) 227-7400
 Date: January 3, 2005
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SIGNATURE: _____
 Debra J. Milasincic
 NAME

 46,931
 REGISTRATION NUMBER

10/520220

DT15 R ~~ST/PTD~~ 0.3 JAN 2005

Application No. (if known): Not Yet Assigned

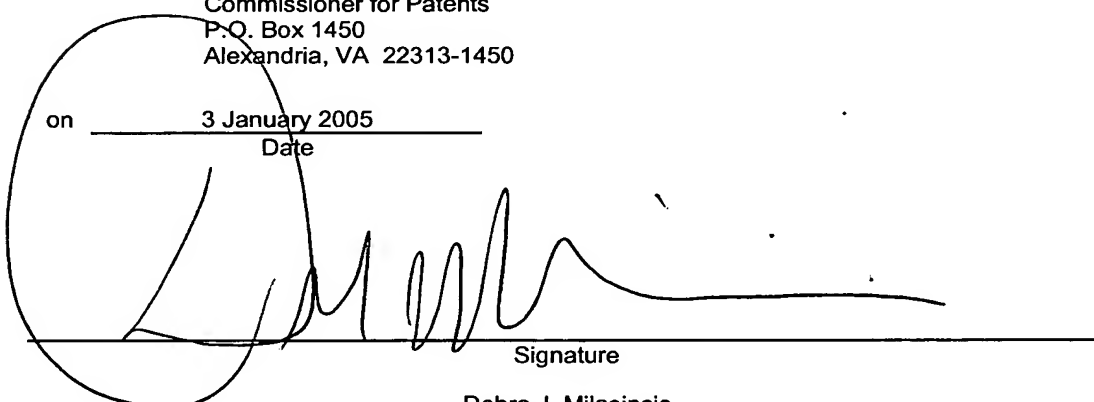
Attorney Docket No.: BGI-154US2

Certificate of Express Mailing Under 37 CFR 1.10

I hereby certify that this correspondence is being deposited with the United States Postal Service as Express Mail, Airbill No. EV 466 142 606 US in an envelope addressed to:

MS PCT
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

on 3 January 2005
Date



Signature

Debra J. Milasincic

Typed or printed name of person signing Certificate

46,931

Registration Number, if applicable

(617) 227-7400

Telephone Number

Note: Each paper must have its own certificate of mailing, or this certificate must identify each submitted paper.

Transmittal Letter (2 sheets in duplicate); Preliminary Amendment (10 sheets); PCT International Published Application (WO2004/005525 A2) (without International Search Report attached) (92 sheets); PCT Notification of the Recording of A Change (PCT/IB/306) (1 sheet); Sequence Listing Diskette; Transmittal Letter for Diskette of Sequence Listing (1 sheet); Application Data Sheet (3 sheets); Certificate of Express Mailing (1 sheet); and Return Postcard.

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* Admitted in TX only
** Admitted in CT only

03 January 2005

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Alexandria, Virginia 22313-1450

Re: PCT Application Entitled: MICROORGANISMS AND PROCESSES
FOR ENHANCED PRODUCTION OF PANTOTHENATE
Inventor: R. Rogers Yocum, *et al.*
Filed: **Herewith**
Our File: **BGI-154US2**

TRANSMITTAL LETTER FOR DISKETTE OF SEQUENCE LISTING

Sir:

In accordance with the requirements of PCT Rule 13ter.2 and 37 CFR 1.821-1.825, the material on the diskette submitted in the enclosed PCT Application is identical in substance to the Sequence Listing appearing on attached pages 1 through 22. Furthermore, the computer readable form of the Sequence Listing contained on said diskette is understood to comply with the requirements of PCT Rule 5, PCT Rule 13 and the Administrative Instructions.

Respectfully submitted,

Debra J. Milasincic
Attorney for Applicant

DJM/nfb
Enclosures